ABSTRACT OF THE DISCLOSURE:

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A dual feedback control system maintains the temperature of an IC-chip near a set-point while the ICchip dissipates a varying amount of electrical power. The first feedback circuit sends electrical power to an electric heater with a variable magnitude compensates for changes in the IC-chip power. The second feedback circuit passes a liquid refrigerant to evaporator, which is connected to the heater, with a variable flow rate that reduces electrical power usage in 10 the heater over that which occurs if the flow rate is fixed.